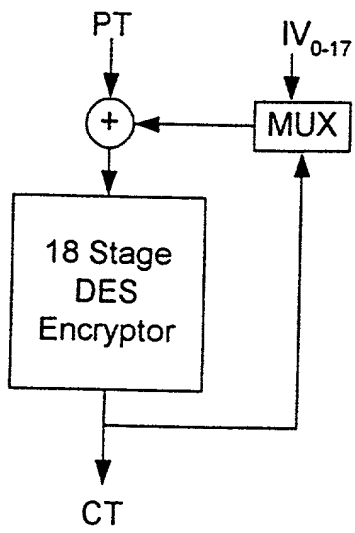
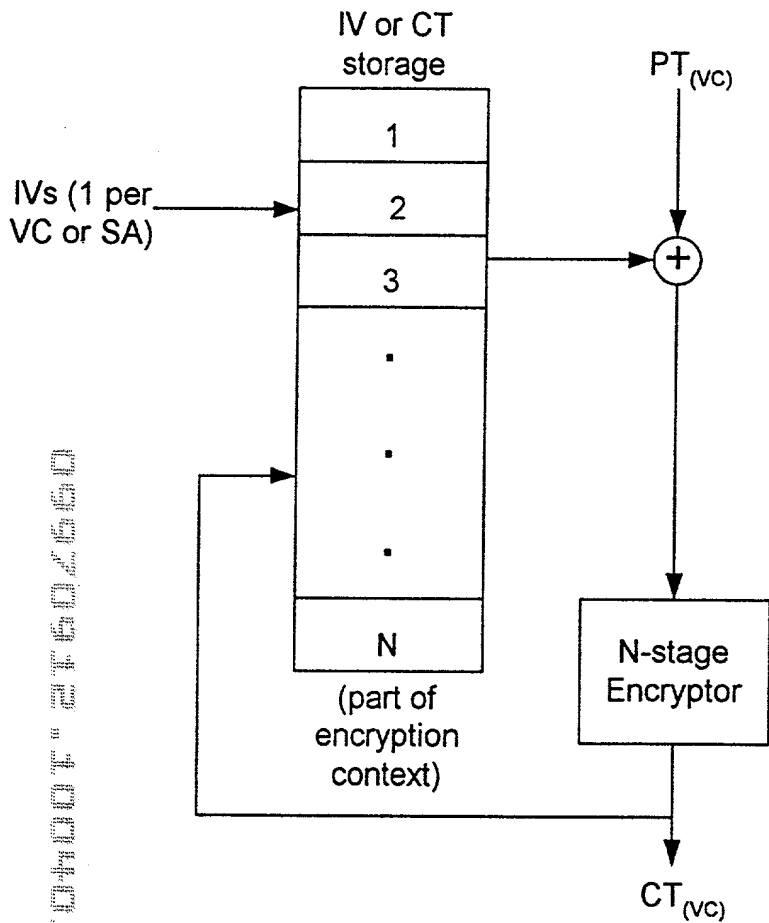


Figure 1.



$$\begin{aligned}
 CT_1 &= E(PT_1 \oplus IV_0) \\
 CT_2 &= E(PT_2 \oplus IV_1) \\
 CT_3 &= E(PT_3 \oplus IV_2) \\
 &\vdots \\
 &\vdots \\
 &\vdots \\
 CT_M &= E(PT_M \oplus IV_{M-1}) \\
 &\vdots \\
 &\vdots \\
 &\vdots \\
 CT_{18} &= E(PT_{18} \oplus IV_{17}) \\
 CT_{19} &= E(PT_{19} \oplus CT_1) \\
 CT_{20} &= E(PT_{20} \oplus CT_2) \\
 &\vdots \\
 &\vdots \\
 &\vdots \\
 CT_N &= E(PT_N \oplus CT_{N-18})
 \end{aligned}$$

Figure 2.



$$CT_{1(VC1)} = E(PT_{1(VC1)} \oplus IV_{(VC1)})$$

$$CT_{1(VC2)} = E(PT_{1(VC2)} \oplus IV_{(VC2)})$$

•

•

•

$$CT_{1(VCN)} = E(PT_{1(VCN)} \oplus IV_{(VCN)})$$

$$CT_{2(VC1)} = E(PT_{2(VC1)} \oplus CT_{1(VC1)})$$

•

•

•

$$CT_{2(VCN)} = E(PT_{2(VCN)} \oplus CT_{1(VCN)})$$

•

•

•

$$CT_{M(VCN)} = E(PT_{M(VCN)} \oplus CT_{M-1(VCN)})$$

Figure 3.

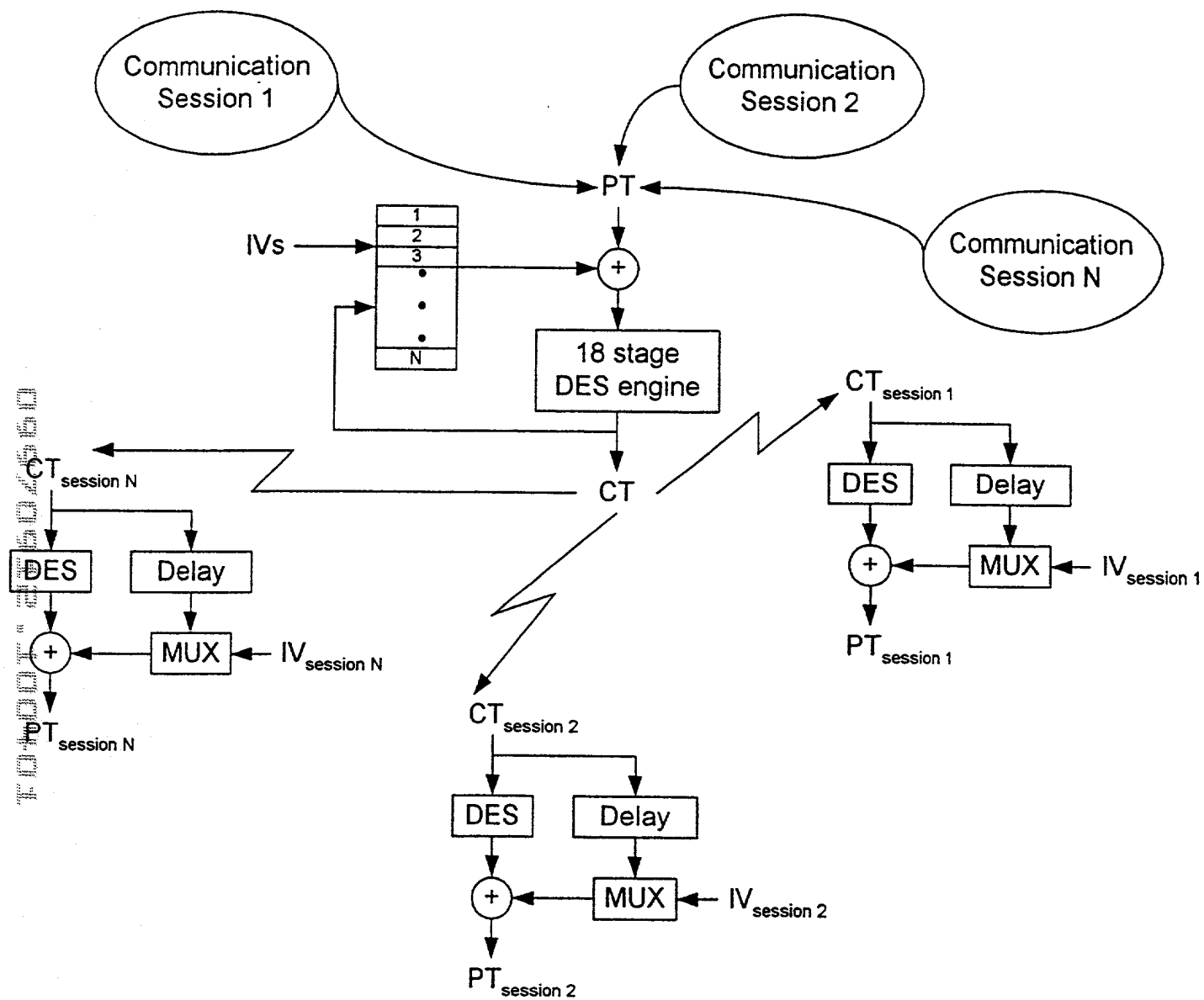


Figure 4

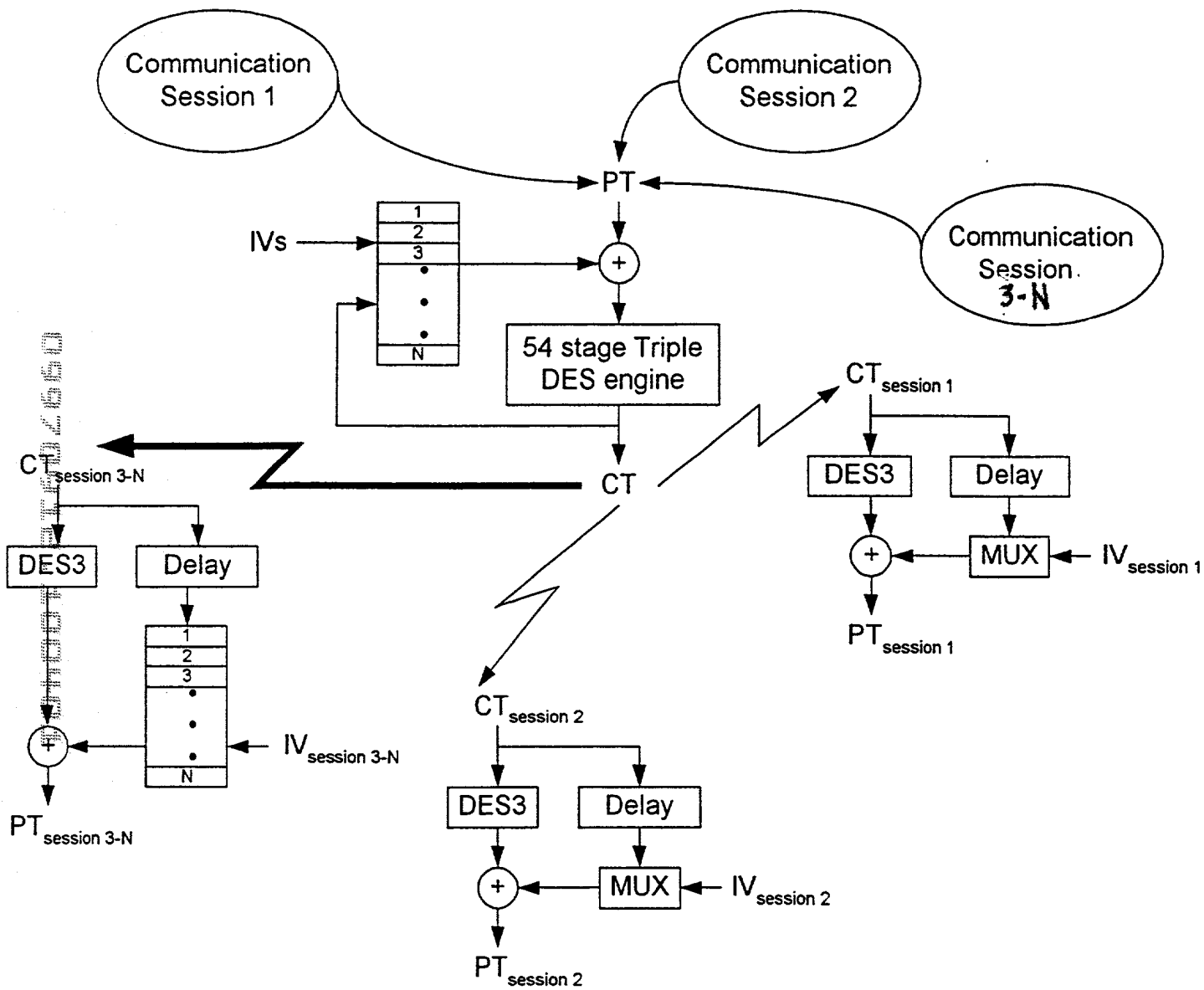


Figure 5